

**PATIENT POSITIONING SYSTEM EMPLOYING
SURFACE PHOTOGRAHMOMETRY**

ABSTRACT

5

A system includes acquisition of first data representing a three-dimensional surface of at least a portion of a patient's body while the patient is in a first position, and acquisition of second data representing at least one internal portion of the patient's body while the patient is in the 10 first position. The acquired data may be used to ensure correct patient positioning during treatment, to verify patient identity prior to treatment, to identify a change in a patient's body that may require revision of an associated treatment plan, and in conjunction with data representing a physical layout of a radiation treatment area to generate a radiation 15 treatment plan.